

Material Safety Data Sheet (MSDS)

Celestine Ore (Strontium Sulfate - SrSO₄)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Celestine Ore (Strontium Sulfate - SrSO₄)
 - **Chemical Formula:** SrSO₄
 - **CAS Number:** 7759-02-6
 - **HS Code:** 2530.90
 - **Supplier:** ATDM
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SECTION 2: HAZARD IDENTIFICATION

- **GHS Classification:** Not classified as hazardous
 - **Hazard Statements:** Non-toxic, non-flammable, stable under normal conditions
 - **Precautionary Statements:** Avoid inhalation of dust, prolonged skin contact, and eye exposure
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Main Component:** Strontium Sulfate (SrSO₄) – 90-98%
 - **Other Impurities:** May contain trace amounts of calcium, barium, and silica
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SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move to fresh air, seek medical attention if discomfort persists
 - **Skin Contact:** Wash with soap and water
 - **Eye Contact:** Rinse thoroughly with water for several minutes
 - **Ingestion:** Rinse mouth and seek medical advice if necessary
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SECTION 5: FIRE-FIGHTING MEASURES

- **Flammability:** Non-flammable
- **Extinguishing Media:** Use appropriate extinguishing media for surrounding fire
- **Special Protective Equipment:** Firefighters should wear protective gear

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid creating dust, wear protective equipment
- **Environmental Precautions:** Prevent large spills from entering waterways
- **Cleanup Methods:** Sweep up material and store in appropriate container

SECTION 7: HANDLING AND STORAGE

- **Handling:** Use proper protective equipment, minimize dust generation
- **Storage:** Store in a dry, cool place away from incompatible substances

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Exposure Limits:** No specific exposure limits established
- **Protective Equipment:**
 - Respiratory Protection: Use dust masks in dusty environments
 - Hand Protection: Wear protective gloves
 - Eye Protection: Use safety goggles

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** White, gray, or light blue crystalline mineral
 - **Odor:** Odorless
 - **Melting Point:** 1,605°C
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- **Solubility:** Insoluble in water, soluble in acids
 - **Density:** 3.9 - 4.0 g/cm³
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SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** Stable under normal conditions
 - **Incompatible Materials:** Strong acids may cause decomposition
 - **Hazardous Decomposition Products:** Sulfur oxides in extreme conditions
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SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Non-toxic
 - **Skin Irritation:** Not classified as an irritant
 - **Eye Irritation:** May cause mechanical irritation
 - **Carcinogenicity:** Not listed as a carcinogen
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SECTION 12: ECOLOGICAL INFORMATION

- **Environmental Impact:** Not considered hazardous to the environment
 - **Bioaccumulation:** Not expected
 - **Mobility in Soil:** Low mobility due to insolubility
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SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Dispose of in accordance with local regulations
 - **Packaging Disposal:** Recycle or dispose of as per local waste management policies
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SECTION 14: TRANSPORT INFORMATION

- **UN Number:** Not classified
 - **Transport Hazard Class:** Not regulated
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- **Packing Group:** Not applicable
 - **Marine Pollutant:** No
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SECTION 15: REGULATORY INFORMATION

- **International Regulations:** Not classified as hazardous under GHS guidelines
 - **EU Regulations:** Not subject to REACH restrictions
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SECTION 16: OTHER INFORMATION

- **Revision Date:** 2025-02-07
 - **Disclaimer:** The information provided in this MSDS is believed to be accurate and is intended for safe handling and use of the material. However, no warranty is expressed or implied regarding its accuracy. Users must determine suitability for their specific applications.
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